```
=> FILE REG
FILE 'REGISTRY' ENTERED AT 12:35:21 ON 04 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:     2 MAR 2005  HIGHEST RN 841200-41-7
DICTIONARY FILE UPDATES:    2 MAR 2005  HIGHEST RN 841200-41-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> FILE HCAPL
FILE 'HCAPLUS' ENTERED AT 12:35:26 ON 04 MAR 2005
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FILE COVERS 1907 - 4 Mar 2005  VOL 142 ISS 11
FILE LAST UPDATED: 3 Mar 2005  (20050303/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> D QUE
L3             1 SEA FILE=REGISTRY ABB=ON  "1,2-HEXANEDIOL"/CN
L4             1 SEA FILE=REGISTRY ABB=ON  "1,2-OCTANEDIOL"/CN
L5             1 SEA FILE=REGISTRY ABB=ON  "1,2-DECANEDIOL"/CN
L6             1 SEA FILE=REGISTRY ABB=ON  "1,2-DODECANEDIOL"/CN
L7             1 SEA FILE=REGISTRY ABB=ON  "ETHYLENE GLYCOL"/CN
L8             5 SEA FILE=REGISTRY ABB=ON  (L3 OR L4 OR L5 OR L6 OR L7)
L9             1 SEA FILE=REGISTRY ABB=ON  PLATINUM/CN
L10            1 SEA FILE=REGISTRY ABB=ON  FE3PT/MF
L11            2 SEA FILE=REGISTRY ABB=ON  FEPT/MF
L12            4 SEA FILE=REGISTRY ABB=ON  FEPT3/MF
```

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L13             9 SEA FILE=REGISTRY ABB=ON  COPT/MF
L14             1 SEA FILE=REGISTRY ABB=ON  L13 NOT 1/C
L15             2 SEA FILE=REGISTRY ABB=ON  COPT3/MF
L16             1 SEA FILE=REGISTRY ABB=ON  L15 NOT 1/C
L17             1 SEA FILE=REGISTRY ABB=ON  COBALT/CN
L18             2 SEA FILE=REGISTRY ABB=ON  COSM/MF
L19             1 SEA FILE=REGISTRY ABB=ON  L18 NOT 1/C
L20            12 SEA FILE=REGISTRY ABB=ON  (L9 OR L10 OR L11 OR L12) OR L14 OR
                  L16 OR L17 OR L19
L22             9 SEA FILE=REGISTRY ABB=ON  C15H21FEO6/MF
L23             8 SEA FILE=REGISTRY ABB=ON  C10H14COO4/MF
L24             2 SEA FILE=REGISTRY ABB=ON  C15H21O6SM/MF
L25             1 SEA FILE=REGISTRY ABB=ON  C2AGF3S2/MF
L27             1 SEA FILE=REGISTRY ABB=ON  C2HF3O2.AG/MF
L28             8 SEA FILE=REGISTRY ABB=ON  CL2FE/MF
L29            29 SEA FILE=REGISTRY ABB=ON  (L22 OR L23 OR L24 OR L25) OR L27 OR
                  L28
L30             1 SEA FILE=REGISTRY ABB=ON  IRON/CN
L31            16 SEA FILE=REGISTRY ABB=ON  FE2O3/MF
L32             7 SEA FILE=REGISTRY ABB=ON  FE3O4/MF
L33            14 SEA FILE=REGISTRY ABB=ON  FEO/MF
L34             7 SEA FILE=REGISTRY ABB=ON  COO/MF
L35             5 SEA FILE=REGISTRY ABB=ON  GD2O3/MF
L36            12 SEA FILE=REGISTRY ABB=ON  CRO2/MF
L37            17 SEA FILE=REGISTRY ABB=ON  NIO/MF
L38            79 SEA FILE=REGISTRY ABB=ON  (L30 OR L31 OR L32 OR L33 OR L34 OR
                  L35 OR L36 OR L37)
L39            20 SEA FILE=REGISTRY ABB=ON  C5FEO5/MF
L40             2 SEA FILE=REGISTRY ABB=ON  C9FE2O9/MF
L41             6 SEA FILE=REGISTRY ABB=ON  C12FE3O12/MF
L42             7 SEA FILE=REGISTRY ABB=ON  C8CO2O8/MF
L43             6 SEA FILE=REGISTRY ABB=ON  C12CO4O12/MF
L44            15 SEA FILE=REGISTRY ABB=ON  C4NIO4/MF
L45            56 SEA FILE=REGISTRY ABB=ON  (L39 OR L40 OR L41 OR L42 OR L43 OR
                  L44)
L47        535715 SEA FILE=HCAPLUS ABB=ON   L45 OR L38
L52         43788 SEA FILE=HCAPLUS ABB=ON   L8
L56        296050 SEA FILE=HCAPLUS ABB=ON   L20 OR L29
L57         72865 SEA FILE=HCAPLUS ABB=ON   L47 AND L56
L58          2118 SEA FILE=HCAPLUS ABB=ON   L57 AND NANO?
L59            74 SEA FILE=HCAPLUS ABB=ON   L58 AND CORE?(4A)(?SHELL? OR ?COAT?)
L60          4613 SEA FILE=HCAPLUS ABB=ON   L56 AND L17 AND NANO?
L61            82 SEA FILE=HCAPLUS ABB=ON   L60 AND CORE?(4A)(?SHELL? OR ?COAT?)
L62           105 SEA FILE=HCAPLUS ABB=ON   L59 OR L61
L63             5 SEA FILE=HCAPLUS ABB=ON   L52 AND L62
L65            83 SEA FILE=HCAPLUS ABB=ON   L62 AND (PREP/RL OR PREPAR? OR
                  PROC/RL)
L66            57 SEA FILE=HCAPLUS ABB=ON   L65 AND MAGNETIC?/SC,SX,AB,BI
L68            59 SEA FILE=HCAPLUS ABB=ON   L66 OR L63


=> D L68 BIB ABS IND HITSTR 1-59

L68  ANSWER 1 OF 59  HCAPLUS  COPYRIGHT 2005 ACS on STN
AN   2005:98907  HCAPLUS
DN   142:193986
TI   Preparation of gold-coated magnetic
     nanoparticles for use in biotechnology applications
IN   Berning, Douglas E.; Kraus, Robert H.; Atcher, Robert W.; Schmidt, Jurgen
```

RN 1309-37-1 REGISTRY

CN = Iron oxide (Fe2O3) (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

=> =>D QUE

L3	1	SEA FILE=REGISTRY ABB=ON	"1,2-HEXANEDIOL"/CN
L4	1	SEA FILE=REGISTRY ABB=ON	"1,2-OCTANEDIOL"/CN
L5	1	SEA FILE=REGISTRY ABB=ON	"1,2-DECANEDIOL"/CN
L6	1	SEA FILE=REGISTRY ABB=ON	"1,2-DODECANEDIOL"/CN
L7	1	SEA FILE=REGISTRY ABB=ON	"ETHYLENE GLYCOL"/CN
L8	5	SEA FILE=REGISTRY ABB=ON	(L3 OR L4 OR L5 OR L6 OR L7)
L9	1	SEA FILE=REGISTRY ABB=ON	PLATINUM/CN
L10	1	SEA FILE=REGISTRY ABB=ON	FE3PT/MF
L11	2	SEA FILE=REGISTRY ABB=ON	FEPT/MF
L12	4	SEA FILE=REGISTRY ABB=ON	FEPT3/MF
L13	9	SEA FILE=REGISTRY ABB=ON	COPT/MF
L14	1	SEA FILE=REGISTRY ABB=ON	L13 NOT 1/C
L15	2	SEA FILE=REGISTRY ABB=ON	COPT3/MF
L16	1	SEA FILE=REGISTRY ABB=ON	L15 NOT 1/C
L17	1	SEA FILE=REGISTRY ABB=ON	COBALT/CN
L18	2	SEA FILE=REGISTRY ABB=ON	COSM/MF
L19	1	SEA FILE=REGISTRY ABB=ON	L18 NOT 1/C
L20	12	SEA FILE=REGISTRY ABB=ON	(L9 OR L10 OR L11 OR L12) OR L14 OR L16 OR L17 OR L19
L22	9	SEA FILE=REGISTRY ABB=ON	C15H21FEO6/MF
L23	8	SEA FILE=REGISTRY ABB=ON	C10H14COO4/MF
L24	2	SEA FILE=REGISTRY ABB=ON	C15H21O6SM/MF
L25	1	SEA FILE=REGISTRY ABB=ON	C2AGF3S2/MF
L27	1	SEA FILE=REGISTRY ABB=ON	C2HF3O2.AG/MF
L28	8	SEA FILE=REGISTRY ABB=ON	CL2FE/MF
L29	29	SEA FILE=REGISTRY ABB=ON	(L22 OR L23 OR L24 OR L25) OR L27 OR L28
L30	1	SEA FILE=REGISTRY ABB=ON	IRON/CN
L31	16	SEA FILE=REGISTRY ABB=ON	FE2O3/MF
L32	7	SEA FILE=REGISTRY ABB=ON	FE3O4/MF
L33	14	SEA FILE=REGISTRY ABB=ON	FEO/MF
L34	7	SEA FILE=REGISTRY ABB=ON	COO/MF
L35	5	SEA FILE=REGISTRY ABB=ON	GD2O3/MF
L36	12	SEA FILE=REGISTRY ABB=ON	CRO2/MF
L37	17	SEA FILE=REGISTRY ABB=ON	NIO/MF
L38	79	SEA FILE=REGISTRY ABB=ON	(L30 OR L31 OR L32 OR L33 OR L34 OR L35 OR L36 OR L37)

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

[redacted]

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L39          20 SEA FILE=REGISTRY ABB=ON  C5FE05/MF
L40           2 SEA FILE=REGISTRY ABB=ON  C9FE209/MF
L41           6 SEA FILE=REGISTRY ABB=ON  C12FE3012/MF
L42           7 SEA FILE=REGISTRY ABB=ON  C8C0208/MF
L43           6 SEA FILE=REGISTRY ABB=ON  C12C04012/MF
L44          15 SEA FILE=REGISTRY ABB=ON  C4NI04/MF
L45          56 SEA FILE=REGISTRY ABB=ON  (L39 OR L40 OR L41 OR L42 OR L43 OR
                L44)
L47      535715 SEA FILE=HCAPLUS ABB=ON   L45 OR L38
L52       43788 SEA FILE=HCAPLUS ABB=ON   L8
L56      296050 SEA FILE=HCAPLUS ABB=ON   L20 OR L29
L57       72865 SEA FILE=HCAPLUS ABB=ON   L47 AND L56
L58        2118 SEA FILE=HCAPLUS ABB=ON   L57 AND NANO?
L59          74 SEA FILE=HCAPLUS ABB=ON   L58 AND CORE?(4A)(?SHELL? OR ?COAT?)
L60        4613 SEA FILE=HCAPLUS ABB=ON   L56 AND L17 AND NANO?
L61          82 SEA FILE=HCAPLUS ABB=ON   L60 AND CORE?(4A)(?SHELL? OR ?COAT?)
L62         105 SEA FILE=HCAPLUS ABB=ON   L59 OR L61
L63           5 SEA FILE=HCAPLUS ABB=ON   L52 AND L62
L65          83 SEA FILE=HCAPLUS ABB=ON   L62 AND (PREP/RL OR PREPAR? OR
                PROC/RL)
L66          57 SEA FILE=HCAPLUS ABB=ON   L65 AND MAGNETIC?/SC,SX,AB,BI
L68          59 SEA FILE=HCAPLUS ABB=ON   L66 OR L63
L69        2245 SEA FILE=HCAPLUS ABB=ON   CORE?(3A)SHELL? AND NANO?
L70          10 SEA FILE=HCAPLUS ABB=ON   L8 AND L69
L71           8 SEA FILE=HCAPLUS ABB=ON   L69 AND SOLUTION? AND (INERT(A)GAS?
                OR NITROGEN OR N2)
L72         321 SEA FILE=HCAPLUS ABB=ON   L69 AND REDUC?
L73          11 SEA FILE=HCAPLUS ABB=ON   L72 AND (INERT(A)GAS? OR NITROGEN OR
                N2)
L74          27 SEA FILE=HCAPLUS ABB=ON   L71 OR L70 OR L73
L75          20 SEA FILE=HCAPLUS ABB=ON   L74 AND (NANOPARTICLE? OR NANOCOMPOSIT
                E?)
L76          76 SEA FILE=HCAPLUS ABB=ON   L68 OR L75
L77          17 SEA FILE=HCAPLUS ABB=ON   L76 NOT L68
L78           5 SEA FILE=HCAPLUS ABB=ON   L77 AND MAGNETIC?/SC,SX,AB,BI
```

=> D L78 1-5 BIB ABS IND

L78 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:1007059 HCAPLUS
DN 142:168041
TI Morphology control and texture of Fe3O4 **nanoparticle**-coated polystyrene microspheres by ethylene glycol in forced hydrolysis reaction
AU Huang, Zhongbing; Tang, Fangqiong; Zhang, Lin
CS Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing, 100101, Peop. Rep. China
SO Thin Solid Films (2004), Volume Date 2005, 471(1-2), 105-112
CODEN: THSFAP; ISSN: 0040-6090
PB Elsevier B.V.
DT Journal
LA English
AB The effects of ethylene glycol (EG) on morphol. and texture of the magnetite **shell/core** polystyrene microspheres produced